

[Name of Document] CLAIMS

[Claim 1]

A disk apparatus comprising a chassis outer sheath having a base body and a lid, in which a front surface of said chassis outer sheath is formed with a disk inserting opening into which a disk is directly inserted, said base body is provided with a traverse base, said traverse base is provided with a spindle motor, a pickup and drive means for moving said pickup, said disk apparatus is further provided with traverse base moving means for displacing said traverse base between said base body and said lid, wherein

said spindle motor is biased toward said traverse base by a resilient member,

said traverse base moving means comprises a loading motor provided on said chassis outer sheath, a slider which slides by driving of said loading motor, a traverse cam member provided on said slider, and a spindle cam member which downwardly moves said spindle motor with respect to said traverse base, said loading motor drives said spindle cam member.

[Claim 2]

The disk apparatus according to claim 1, wherein said slider is provided with said spindle cam member.

[Claim 3]

The disk apparatus according to claim 1, wherein said spindle cam member is separated from said slider and provided on the side of said traverse base.

[Claim 4]

The disk apparatus according to claim 1, wherein said spindle motor includes a plurality of pins inserted into said spindle cam member, motion of said spindle cam member driven by said loading motor is transmitted to said spindle motor through said pins to lower said spindle motor.

[Claim 5]

The disk apparatus according to claim 1, wherein said loading motor is driven to bring said spindle motor to an uppermost lifted position and then, said traverse base is lowered, and after said traverse base is lowered, said loading motor is reversely rotated to bring spindle motor to the uppermost lifted position again and then, said traverse base is lowered.

[Claim 6]

The disk apparatus according to claim 5, wherein before driving operation caused by reverse rotation of said loading motor, said spindle motor is actuated and a disk is rotated by a predetermined phase or predetermined time.